INDEX TO AUTHORS.

B

Balboni, G. M. See MEANS and BALBONI, 671

Blake, Francis G. The formation of methemoglobin by *Streptococcus viridans*, 315

Broadwell, Stuart. See KOLMER, BROADWELL, and MATSUNAMI, 333

Bull, Carroll G. Further observations on the agglutination of bacteria *in vivo*, 25

—. Immunity factors in pneumococcus infection in the dog, 7

— and **Pritchett, Ida W.** The agglutinability of blood and agar strains of typhoid bacilli, 35

C

Carrel, Alexis, and **Hartmann, Alice.** Cicatrization of wounds. I. The relation between the size of a wound and the rate of its cicatrization, 429

Cecil, Russell L. A study of experimental non-hemolytic streptococcus lesions in vitally stained rabbits, 739

Chesney, Alan M. The latent period in the growth of bacteria, 387

Clark, Admont H. The interrelation of the surviving heart and pancreas of the dog in sugar metabolism, 621

D

Danchakoff, Vera. The differentiation of cells as a criterion for cell identification, considered in relation to the small cortical cells of the thymus, 87

G

Gelat, Maurice. See ZUNZ and GELAT, 247

Graham, Allen. A study of the physiological activity of adenomata of the thyroid gland, in relation to their iodine content, as evidenced by feeding experiments on tadpoles, 345

H

Halsted, W. S. An experimental study of circumscribed dilation of an artery immediately distal to a partially occluding band, and its bearing on the dilation of the subclavian artery observed in certain cases of cervical rib, 271

Hartmann, Alice. See CARREL and HARTMANN, 429

Hess, Alfred F. The separation of serum into coagulative and non-coagulative fractions, 701

Hoki, Rokuro. See IDO, HOKI, ITO, and WANI, 471

—. See INADA, IDO, HOKI, ITO, and WANI, 485

Hopkins, J. G. See ZINSSER, HOPKINS, and MCBURNEY, 561

Hurwitz, S. H., and **Meyer, K. F.** Studies on the blood proteins. I. The serum globulins in bacterial infection and immunity, 515

I

Ido, Yutaka, Hoki, Rokuro, Ito, Hiroshi, and **Wani, H.** The prophylaxis of Weil's disease (spirochætosis icterohæmorrhagica), 471

—. See INADA, IDO, HOKI, ITO, and WANI, 485

Inada, Ryokichi, Ido, Yutaka, Hoki, Rokuro, Ito, Hiroshi, and **Wani, H.** The serum treatment of Weil's disease (spirochætosis icterohæmorrhagica), 485

Ito, Hiroshi. See IDO, HOKI, ITO, and WANI, 471

—. See INADA, IDO, HOKI, ITO, and WANI, 485

K

Keilty, Robert A. A final report on the cultivation of the tubercle bacillus from the sputum by the method of Petroff, 41

Koga, Gensaburo. A contribution to the chemotherapy of tuberculosis. First experimental report, 107

—. A contribution to the chemotherapy of tuberculosis. First clinical report, 149

Kolmer, John A., Broadwell, Stuart, Jr., and **Matsunami, Toitsu.** Agglutination of *Treponema pallidum* in human syphilis, 333

Kritchevsky, I. L. Studies on heterogeneous hemolytic sera, 233

Krumbhaar, Edward B. Spontaneous diabetes in a dog, 361

L

Lambert, Robert A. The comparative resistance of bacteria and human tissue cells to certain common antiseptics, 683

—. Technique of cultivating human tissues *in vitro*, 367

Lawson, Mary R. Distortion of the malarial parasite. An interpretation of "*Plasmodium tenue*" (Stephens), 291

M

McBurney, Malcolm. See ZINSSER, HOPKINS, and MCBURNEY, 561

Mann, Frank C. A further study of the gastric ulcers following adrenalectomy, 329

Matsunami, Toitsu. See KOLMER, BROADWELL, and MATSUNAMI, 333

Means, J. H., and **Balboni, G. M.** The various factors of respiration in persons with pneumothorax, 671

—. See NEWBURGH, MEANS, and PORTER, 583

Meyer, K. F. See HURWITZ and MEYER, 515

Miller, James Alexander, and **Noble, Willis C.** The effects of exposure to cold upon experimental infection of the respiratory tract, 223

Morton, John J. A rapid method for the diagnosis of renal tuberculosis by the use of the x-rayed guinea pig, 419

Murphy, James B. The effect of adult chicken organ grafts on the chick embryo, 1

N

Newburgh, L. H., Means, J. H., and **Porter, W. T.** The respiratory mechanism in pneumonia, 583

Nichols, Henry J. Experimental observations on the pathogenesis of gall-bladder infections in typhoid, cholera, and dysentery, 497

Noble, Willis C. See MILLER and NOBLE, 223

du Noüy, P. Lecomte. Cicatrization of wounds. II. Mathematical expression of the curve representing cicatrization, 451

—. Cicatrization of wounds. III. The relation between the age of the patient, the area of the wound, and the index of cicatrization, 461

O

Otani, Morisuke. The treatment of tuberculosis with cyanocuprol, 187

P

Porter, W. T. See NEWBURGH, MEANS, and PORTER, 583

Powell, Cuthbert. See SEWALL and POWELL, 69

Pritchett, Ida W. See BULL and PRITCHETT, 35

R

Reid, Mont R. Partial occlusion of the aorta with the metallic band. Observations on blood pressures and changes in the arterial walls, 287

Robinson, G. Canby. The influence of the vagus nerves upon conduction between auricles and ventricles in the dog during auricular fibrillation, 605

Rogoff, J. M. See STEWART and ROGOFF, 709

S

Sewall, Henry, and **Powell, Cuthbert.** The conditions and characters of the immunity produced in the guinea pig by instillation of horse serum into the nose, 69

Stewart, G. N., and **Rogoff, J. M.** The influence of certain factors, especially emotional disturbances, on the epinephrin content of the adrenals, 709

Stillman, Ernest G. A contribution to the epidemiology of lobar pneumonia, 651

Stryker, Laura M. Variations in the pneumococcus induced by growth in immune serum, 49

Swift, Homer F. A study of serum salvarsanized *in vitro*, 373

T

Takano, R. The treatment of leprosy with cyanocuprol, 207

Tanberg, Andreas. The relation between the thyroid and parathyroid glands, 547

TenBroeck, Carl. A non-gas-producing strain of the hog-cholera bacillus isolated from an old laboratory culture, 213

U

Uhlenhuth, Eduard. Changes in pigment epithelium cells and iris pigment cells of *Rana pipiens* induced by changes in environmental conditions, 689

W

Wani, H. See IDO, HOKI, ITO, and WANI, 471

—. See INADA, IDO, HOKI, ITO, and WANI, 485

Z

Zinsser, Hans, Hopkins, J. G., and **McBurney, Malcolm.** Studies on *Treponema pallidum* and syphilis. V. Further studies on the relation of culture *pallida* to virulent *pallida* and on reinfection phenomena, 561

Zunz, Edgard, and **Gelat, Maurice.** The effects of serum treated with agar, 247

INDEX TO SUBJECTS.

A

Adenoma:
Thyroid gland, iodine content (GRAHAM) 345
Adrenalectomy:
Ulcer, gastric, following (MANN) 329
Adrenals:
Epinephrin content (STEWART and ROGOFF) 709
Agar:
Serum treated with (ZUNZ and GELAT) 247
Agglutination:
Bacteria *in vivo* (BULL) 25
Treponema pallidum (KOLMER, BROADWELL, and MATSUNAMI) 333
Typhoid bacilli of blood and agar strains (BULL and PRITCHETT) 35
Antiseptic:
Resistance of bacteria and human tissue cells to (LAMBERT) 683
Aorta:
Occlusion (REID) 287
Artery:
Changes in walls by partial occlusion of aorta (REID) 287
Dilation, distal to occluding band (HALSTED) 271
Subclavian, dilation, in cervical rib (HALSTED) 271
Auricle:
Fibrillation (ROBINSON) 605
Vagus influence on, during auricular fibrillation (ROBINSON) 605

B

Bacillus:
Hog-cholera, non-gas-producing strain (TENBROECK) 213
Tuberculosis. *See* Tubercle bacillus.
Typhoid. *See* Typhoid.
Bacteria:
Agglutination *in vivo* (BULL) 25
Growth, latent period in (CHESNEY) 387
Resistance to antiseptics (LAMBERT) 683
Blood:
Proteins (HURWITZ and MEYER) 515
Blood pressure:
Changes produced by partial occlusion of aorta (REID) 287

C

Cell:
Differentiation and identification (DANCHAKOFF) 87
Pigment epithelium, and iris pigment, of *Rana pipiens* (UHLENHUTH) 689
Tissue, human, resistance to antiseptics (LAMBERT) 683
Cervical rib:
Dilation of subclavian artery in (HALSTED) 271
Chemotherapy:
Tuberculosis (KOGA) 107, 149

Cholera:
Gall-bladder infections in (NICHOLS) 497
Hog-, bacillus, non-gas-producing strain (TENBROECK) 213
Cicatrization:
Index (DU NOÜY) 461
Rate of, and size of wound (CARREL and HARTMANN) 429
Wound (DU NOÜY) 461
—, mathematical curve representing (DU NOÜY) 451
Cultivation:
Tissue, *in vitro* (LAMBERT) 367
Tubercle bacillus, in sputum (KEILTY) 41
Culture:
Hog-cholera bacillus, non-gas-producing strain (TENBROECK) 213
Cyanocuprol:
Leprosy treated with (TAKANO) 207
Tuberculosis treated with (OTANI) 187

D

Diabetes:
Spontaneous, in a dog (KRUMBHAAR) 361
Disease:
Weil's, prophylaxis of (IDO, HOKI, ITO, and WANI) 471
—, serum treatment of (INADA, IDO, HOKI, ITO, and WANI) 485
Dysentery:
Gall-bladder infections in (NICHOLS) 497

E

Embryo:
Chick, organ grafts on (MURPHY) 1
Epidemiology:
Lobar pneumonia (STILLMAN) 651
Epinephrin:
Content of adrenals (STEWART and ROGOFF) 709
Epithelium:
Cells, pigment and iris, of *Rana pipiens* (UHLENHUTH) 689

F

Fibrillation:
Auricular (ROBINSON) 605

G

Gall-bladder:
Infections, pathogenesis of (NICHOLS) 497
Gastric:
See Stomach.
Gland:
Parathyroid. *See* Parathyroid.
Thyroid. *See* Thyroid.
Globulin:
Serum, in bacterial infection and immunity (HURWITZ and MEYER) 515
Graft:
Organ, adult chicken, in chick embryo (MURPHY) 1
Growth:
Bacteria, latent period in (CHESNEY) 387
Pneumococci, in immune serum (STRYKER) 49

H

Heart:
Sugar metabolism, heart and pancreas in (CLARK) 621
Hemolytic:
Heterogeneous sera (KRITCHEVSKY) 233
Lesions, non-hemolytic streptococcus (CECIL) 739
Hog-cholera:
See Cholera.

I

Immunity:
Bacterial, serum globulins in (HURWITZ and MEYER) 515
Pneumococcus infection (BULL) 7
Produced by horse serum (SEWALL and POWELL) 69
In vitro:
Serum salvarsanized (SWIFT) 373
Tissue cultures, human (LAMBERT) 367
In vivo:
Agglutination of bacteria (BULL) 25
Infection:
Bacterial, serum globulins in (HURWITZ and MEYER) 515
Gall-bladder, in typhoid, cholera, and dysentery (NICHOLS) 497
Pneumococcus, immunity in (BULL) 7
Reinfection in syphilis (ZINSSER, HOPKINS, and MCBURNEY) 561
Respiratory tract (MILLER and NOBLE) 223
Iodine:
Adenomata of thyroid gland containing (GRAHAM) 345
Iris:
Pigment and pigment epithelium cells of *Rana pipiens* (UHLENHUTH) 689

K

Kidney:
Tuberculosis, diagnosis of (MORTON) 419

L

Leprosy:
Cyanocuprol in (TAKANO) 207
Lesion:
Non-hemolytic streptococcus (CECIL) 739

M

Malaria:
Parasite (*Plasmodium tenue*) (LAWSON) 291
Metabolism:
Sugar, heart and pancreas in (CLARK) 621
Methemoglobin:
Streptococcus viridans formation of (BLAKE) 315
Method:
Petroff's, for cultivation of tubercle bacillus in sputum (KEILTY) 41

N

Nerve:
Vagus, influence on auricles and ventricles during auricular fibrillation (ROBINSON) 605

O

Organ:
Grafts of adult chicken, in chick embryo (MURPHY) 1

P

Pallida:
Spirochæta, agglutination (KOLMER, BROADWELL, and MATSUNAMI) 333
—, culture and virulent (ZINSSER, HOPKINS, and MCBURNEY) 561
Pancreas:
Sugar metabolism, heart and pancreas in (CLARK) 621
Parasite:
Malarial (*Plasmodium tenue*) (LAWSON) 291
Parathyroid:
Thyroid in relation to (TANBERG) 547

Petroff:
Method for cultivation of tubercle bacillus in sputum (KEILTY) 41
Pigment:
Cells, epithelium, and iris pigment, of *Rana pipiens* (UHLENHUTH) 689
Plasmodium:
tenue (LAWSON) 291
Pneumococcus:
Infection, immunity in (BULL) 7
Variations in growth (STRYKER) 49
Pneumonia:
Lobar, epidemiology (STILLMAN) 651
Respiratory mechanism (NEWBURGH, MEANS, and PORTER) 583
Pneumothorax:
Respiration (MEANS and BALBONI) 671
Proteins:
Blood (HURWITZ and MEYER) 515

R

Renal:
See Kidney.
Respiration:
Factors in pneumothorax (MEANS and BALBONI) 671
Mechanism, respiratory, in pneumonia (NEWBURGH, MEANS, and PORTER) 583
Respiratory tract:
Infection of (MILLER and NOBLE) 223
Roentgen ray:
Tuberculosis of kidney diagnosed by, in guinea pigs (MORTON) 419

S

Serum:
Agar treated (ZUNZ and GELAT) 247
Coagulative and non-coagulative fractions, separation into of (HESS) 701
Globulins in bacterial infection and immunity (HURWITZ and MEYER) 515
Heterogeneous hemolytic (KRITCHEVSKY) 233
Horse, immunity by (SEWALL and POWELL) 69
Immune, pneumococcus, growth of, in (STRYKER) 49
Salvarsanized *in vitro* (SWIFT) 373
Weil's disease, serum treatment of (INADA, IDO, HOKI, ITO, and WANI) 485
Spirochæta:
pallida, agglutination (KOLMER, BROADWELL, and MATSUNAMI) 333
—, culture and virulent (ZINSSER, HOPKINS, and MCBURNEY) 561
Spirochætosis icterohæmorrhagica:
See Weil's disease.
Sputum:
Tubercle bacillus in (KEILTY) 41
Stomach:
Ulcer (MANN) 329
Streptococcus:
Lesions, non-hemolytic (CECIL) 739
viridans formation of methemoglobin (BLAKE) 315
Sugar:
Metabolism, heart and pancreas in (CLARK) 621
Syphilis:
(ZINSSER, HOPKINS, and MCBURNEY) 561

Syphilis—*continued:*
Agglutination of *Treponema pallidum* (KOLMER, BROADWELL, and MATSUNAMI) 333

T

Tenue:
Plasmodium (LAWSON) 291
Thymus:
Cells, differentiation of (DANCHAKOFF) 87
Thyroid:
Iodine content of adenomata of (GRAHAM) 345
Parathyroid in relation to (TANBERG) 547
Tissue:
Cells, human, resistance to antiseptics (LAMBERT) 683
Cultures, human, *in vitro* (LAMBERT) 367
Treponema:
pallidum. *See Spirochæta pallida.*
Tubercle bacillus:
Cultivation, in sputum (KEILTY) 41
Tuberculosis:
Chemotherapy of (KOGA) 107, 149
Cyanocuprol in (OTANI) 187
Renal, diagnosis of (MORTON) 419
Typhoid:
Bacillus, agglutinability (BULL and PRITCHETT) 35
Typhoid—*continued:*
Gall-bladder infections in (NICHOLS) 497

U

Ulcer:
Gastric (MANN) 329

V

Vagus:
Auricles and ventricles, vagus influence on, during auricular fibrillation (ROBINSON) 605
Ventricle:
Vagus influence on, during auricular fibrillation (ROBINSON) 605
Viridans:
Streptococcus, formation of methemoglobin (BLAKE) 315

W

Weil's disease:
See Disease.
Wound:
Cicatrization, index of (DU NOÜY) 461
—, mathematical curve representing (DU NOÜY) 451
—, rate of (CARREL and HARTMANN) 429

X

X-ray:
See Roentgen ray.